



TECH CENTER 1600/2900

JUL 28 2003

RECEIVED

SEQUENCE LISTING

<110> Nigel R.A. Beeley
Kathryn S. Prickett
Kevin Beaumont

<120> NOVEL MIXED AMYLIN ACTIVITY COMPOUNDS

<130> 18528.038 / 256/153 US

<140> 09/622,104

<141> 2001-07-17

<150> PCT/US99/02603

<151> 1999-02-05

<150> 60/074,746

<151> 1998-02-13

<160> 32

<170> FastSEQ for Windows Version 4.0

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<211> 29

<212> PRT

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<223> Synthetic peptides

<400> 1

Leu Ser Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu His Arg
1 5 10 15
Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
20 25

<210> 2

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<220>

<221> Amidation

<222> (1)

<223> Xaa stands for 4-methylpentanoyl

<220>

<221> Amidation

<222> (7 and 14)

<223> Xaa stands for Aib

<400> 2

Xaa Ser Thr Ala Val Leu Xaa Lys Leu Ser Gln Glu Leu Xaa Lys
1 5 10 15
Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Gly Thr Pro
20 25

<210> 3

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<223> Synthetic peptides

<220>

<221> Amidation

<222> (1)

<223> Xaa stands for Acetylation

<400> 3

A2
Xaa Leu Ser Thr Ser Val Leu Gly Arg Leu Ser Gln Glu Leu His
1 5 10 15
Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
20 25 30

<210> 4

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<400> 4

Leu Ser Thr Ala Val Leu Gly Arg Leu Ser Gln Glu Leu His Arg
1 5 10 15
Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
20 25

<210> 5

<211> 29

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<213> Artificial Sequence

<220>

<223> Synthetic peptides

<400> 5

Leu Ser Thr Ser Val Leu Gly Arg Leu Ser Gln Glu Leu His Arg

1	5	10	15
Leu	Gln	Thr	Tyr
Pro	Arg	Thr	Asn
Thr	Gly	Ser	Asn
Tyr			
20	25		

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 <221> Amidation
 <222> (1)
 <223> Xaa stands for Acetylation

<400> 6
Xaa Leu Ser Thr Ala Val Leu Gly Arg Leu Ser Gln Glu Leu His
1 5 10 15
Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
20 25 30

<210> 7
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 <221> Amidation
 <222> (1)
 <223> Xaa stands for Acetylation

<400> 7
Xaa Leu Ser Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu His
1 5 10 15
Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
20 25 30

<210> 8
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<220>
 <221> Amidation

02

<222> (3 and 10)
<223> Xaa stands for Acetylation

<400> 8

Val	Leu	Xaa	Lys	Leu	Ser	Gln	Glu	Leu	Xaa	Lys	Leu	Gln	Thr	Tyr
1				5					10					15
Pro	Arg	Thr	Asn	Thr	Gly	Ser	Asn	Thr	Tyr					
				20					25					

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<222> (1)
<223> Xaa stands for Acetylation

<220>
<221> Amidation
<222> (4 and 11)
<223> Xaa stands for Aib

<400> 9

Xaa	Val	Leu	Xaa	Lys	Leu	Ser	Gln	Glu	Leu	Xaa	Lys	Leu	Gln	Thr
1				5					10					15
Tyr	Pro	Arg	Thr	Asn	Thr	Gly	Ser	Asn	Thr	Tyr				
				20					25					

<210> 10
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<221> Amidation
<222> (1)
<223> Xaa stands for 4-methylpentanoyl

<220>
<221> Amidation
<222> (7 and 14)
<223> Xaa stands for Aib

<400> 10

Xaa Ser Thr Ala Val Leu Xaa Lys Leu Ser Gln Glu Leu Xaa Lys
 1 5 10 15
 Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
 20 25

<210> 11
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 <221> Amidation
 <222> (1)
 <223> Xaa stands for 4-methylpentanoyl

<220>
 <221> Amidation
 <222> (7 and 14)
 <223> Xaa stands for Aib

<400> 11

Xaa Ser Thr Cys Val Leu Xaa Lys Leu Ser Gln Glu Leu Xaa Lys
 1 5 10 15
 Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
 20 25

<210> 12
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 <223> Synthetic peptides

<220>
 <221> Amidation
 <222> (3 and 10)
 <223> Xaa stands for Aib

<400> 12

Ala Thr Xaa Lys Leu Ala Asn Glu Leu Xaa Lys Leu Gln Thr Tyr
 1 5 10 15
 Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
 20 25

<210> 13

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<222> (1)
<223> Xaa stands for Acetylation

<220>
<221> Amidation
<222> (3 and 10)
<223> Xaa stands for Aib

<400> 13

Xaa	Thr	Xaa	Lys	Leu	Ala	Asn	Glu	Leu	Xaa	Lys	Leu	Gln	Thr	Tyr
1				5					10					15
Pro	Arg	Thr	Asn	Thr	Gly	Ser	Asn	Thr	Tyr					
				20					25					

02
<210> 14
<211> 29
<212> PRT
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<220>
<223> Salmon Calcitonin

<400> 14

Leu	Ser	Thr	Cys	Val	Leu	Gly	Lys	Leu	Ser	Gln	Glu	Leu	His	Lys
1				5					10					15
Leu	Gln	Thr	Tyr	Pro	Arg	Thr	Asn	Thr	Gly	Ser	Gly	Thr	Pro	
				20					25					

<210> 15
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Salmon Calcitonin

<400> 15

Val	Leu	Gly	Lys	Leu	Ser	Gln	Glu	Leu	His	Lys	Leu	Gln	Thr	Tyr
1				5					10					15
Pro	Arg	Thr	Asn	Thr	Gly	Ser	Gly	Thr	Pro					
				20					25					

<210> 16
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Salmon Calcitonin

<400> 16

Val	Leu	Gly	Lys	Leu	Ser	Gln	Glu	Leu	His	Lys	Leu	Gln	Thr	Tyr
1			5						10					15
Pro	Arg	Thr	Asn	Thr	Gly	Ser	Asn	Thr	Tyr					
			20						25					

<210> 17
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Salmon Calcitonin

<400> 17

Val	Leu	Gly	Lys	Leu	Ser	Gln	Glu	Leu	His	Lys	Leu	Gln	Thr	Tyr
1			5						10					15
Pro	Arg	Thr	Asn	Thr	Gly	Ser	Asn	Thr	Tyr					
			20						25					

<210> 18
<211> 30
<212> PRT
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<220>
<223> Salmon Calcitonin

<220>
<221> Amidation
<222> (1)
<223> Xaa stands for Acetylation

<400> 18

Xaa	Leu	Ser	Thr	Ala	Val	Leu	Gly	Lys	Leu	Ser	Gln	Glu	Leu	His
1				5					10					15
Lys	Leu	Gln	Thr	Tyr	Pro	Arg	Thr	Asn	Thr	Gly	Ser	Gly	Thr	Pro
				20					25					30

<210> 19
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<212> PRT
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<220>
<223> Salmon Calcitonin

<220>
<221> Amidation
<222> (1)
<223> Xaa stands for Acetylation

<220>
<221> Amidation
<222> (15)
<223> Xaa stands for Aib

<400> 19

Xaa	Leu	Ser	Thr	Ala	Val	Leu	Gly	Lys	Leu	Ser	Gln	Glu	Leu	Xaa
1				5				10						15
Lys	Leu	Gln	Thr	Tyr	Pro	Arg	Thr	Asn	Thr	Gly	Ser	Gly	Thr	Pro
				20				25						30

<210> 20
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<220>
<223> Salmon Calcitonin

<220>
<221> Amidation
<222> (1)
<223> Xaa stands for Isocaproyl

<400> 20

Xaa	Ser	Thr	Ala	Val	Leu	Gly	Lys	Leu	Ser	Gln	Glu	Leu	His	Lys
1				5				10						15
Leu	Gln	Thr	Tyr	Pro	Arg	Thr	Asn	Thr	Gly	Ser	Gly	Thr	Pro	
				20				25						

<210> 21
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<220>
<223> Salmon Calcitonin

<220>
<221> Amidation
<222> (1)

<223> Xaa stands for a or c or t/u

<400> 21

Xaa	Leu	Ser	Thr	Ala	Val	Leu	Gly	Lys	Leu	Ser	Gln	Glu	Leu	His
1				5				10					15	
Lys	Leu	Gln	Thr	Tyr	Pro	Arg	Thr	Asn	Thr	Gly	Ser	Gly	Thr	Pro
				20				25					30	

<210> 22

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Salmon Calcitonin

<220>

<221> Amidation

<222> (1)

<223> Xaa stands for Adamantacetyl

<400> 22

02

Xaa	Ser	Thr	Ala	Val	Leu	Gly	Lys	Leu	Ser	Gln	Glu	Leu	His	Lys
1				5				10					15	
Leu	Gln	Thr	Tyr	Pro	Arg	Thr	Asn	Thr	Gly	Ser	Gly	Thr	Pro	
				20				25						

<210> 23

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Salmon Calcitonin

<220>

<221> Amidation

<222> (1)

<223> Xaa stands for CH3CO

<400> 23

Xaa	Ser	Thr	Ala	Val	Leu	Gly	Lys	Leu	Ser	Gln	Glu	Leu	His	Lys
1				5				10					15	
Leu	Gln	Thr	Tyr	Pro	Arg	Thr	Asn	Thr	Gly	Ser	Gly	Thr	Pro	
				20				25						

<210> 24

<211> 29

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<213> Artificial Sequence

<220>
<223> Salmon Calcitonin

<220>
<221> Amidation
<222> (1)
<223> Xaa stands for Cyclohexylpropionyl

<400> 24

Xaa	Ser	Thr	Ala	Val	Leu	Gly	Lys	Leu	Ser	Gln	Glu	Leu	His	Lys
1				5					10					15
Leu	Gln	Thr	Tyr	Pro	Arg	Thr	Asn	Thr	Gly	Ser	Gly	Thr	Pro	
				20					25					

<210> 25
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<220>
<223> Salmon Calcitonin

02
<220>
<221> Amidation
<222> (1)
<223> Xaa stands for Cyclopentyl C (0)

<400> 25

Xaa	Ser	Thr	Ala	Val	Leu	Gly	Lys	Leu	Ser	Gln	Glu	Leu	His	Lys
1				5					10					15
Leu	Gln	Thr	Tyr	Pro	Arg	Thr	Asn	Thr	Gly	Ser	Gly	Thr	Pro	
				20					25					

<210> 26
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Salmon Calcitonin

<220>
<221> Amidation
<222> (1)
<223> Xaa stands for Decanoyl

<400> 26

Xaa	Ser	Thr	Ala	Val	Leu	Gly	Lys	Leu	Ser	Gln	Glu	Leu	His	Lys
1				5					10					15
Leu	Gln	Thr	Tyr	Pro	Arg	Thr	Asn	Thr	Gly	Ser	Gly	Thr	Pro	

<210> 27
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<220>
 <223> Synthetic peptides

<220>
 <221> Amidation
 <222> (1)
 <223> Xaa stands for Leu-Leu, Val-Leu, Ile-Leu, tert-Leu-Leu,
 Nle-Neu, and Ala-Thr, and N-acylated

<220>
 <221> Amidation
 <222> (2)
 <223> Xaa stands for Gly, Glu, Asn or Aib

<220>
 <221> Amidation
 <222> (3)
 <223> Xaa stands for Arg, Orn, Lys and amidated derivatives

<220>
 <221> Amidation
 <222> (5)
 <223> Xaa stands for Ser-Gln, Thr-Gln, Ala-Asn and Thr-Asn

<220>
 <221> Amidation
 <222> (8)
 <223> Xaa stands for His, Aib, Ile, Leu and Val

<220>
 <221> Amidation
 <222> (9)
 <223> Xaa stands for Arg, Orn, Lys and amidated derivatives

<220>
 <221> Amidation
 <222> (18)
 <223> Xaa stands for Thr-Gly-Ser-Asn-Thr-Tyr-NH₂,
 Thr-Gly-Ser-Gly-Thr-Pro-NH₂,
 Val-Gly-Ser-Asn-Thr-Tyr-NH₂,
 Val-Gly-Ser-Gly-Thr-Pro-NH₂

<220>
 <221> Amidation
 <222> (19)
 <223> Xaa stands for Z3 is OH or NH₂

<400> 27

• Xaa Xaa Xaa Leu Xaa Glu Leu Xaa Xaa Leu Gln Thr Tyr Pro Arg
 1 5 10 15
 Thr Asn Xaa Xaa

<210> 28
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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic peptides

<220>
 <221> Amidation
 <222> (1)
 <223> Xaa stands for Leu, Val, Ile, tert-Leu, Nva, Abu, and Nle or
 N-acylated derivatives

<220>
 <221> Amidation
 <222> (4)
 <223> Xaa stands for Ala, Ser, Cys and Thr

<400> 28
 Xaa Ser Thr Xaa Val Leu
 1 5

<210> 29
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic peptides

<220>
 <221> Amidation
 <222> (7)
 <223> Xaa stands for NH2

<400> 29
 Thr Gly Ser Asn Thr Tyr Xaa
 1 5

<210> 30
 <211> 7
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<223> Synthetic peptides

<220>

<221> Amidation

<222> (7)

<223> Xaa stands for NH2

<400> 30

Thr Gly Ser Gly Thr Pro Xaa

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<210> 31

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<220>

<223> Synthetic peptides

<220>

<221> Amidation

<222> (7)

<223> Xaa stands for NH2

<400> 31

Val Gly Ser Asn Thr Tyr Xaa

1

5

<210> 32

<211> 7

<212> PRT

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<220>

<223> Synthetic peptides

<220>

<221> Amidation

<222> (7)

<223> Xaa stands for NH2

<400> 32

Val Gly Ser Gly Thr Pro Xaa

1

5